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In the claims:

Claims 1-29 (canceled).

30. (amended) A method for treating a pulmonary disease state in mammals by

protecting indigenous in vivo levels of nitric oxide in mammalian cells during ozone

inhalation above ambient levels comprising contacting the mammalian cells with a

therapeutically effective amount of a nitric oxide mediator, wherein the nitric oxide mediator

is selected from the group consisting of pyruvates, pyruvate precursors, α-keto acids having

four or more carbon atoms, precursors of α -keto acids having four or more carbon atoms, and

the salts thereof.

31. (previously presented) The method according to claim 30, wherein the pyruvates

are selected from the group consisting of pyruvic acid, lithium pyruvate, sodium pyruvate,

potassium pyruvate, magnesium pyruvate, calcium pyruvate, zinc pyruvate, manganese

pyruvate, and mixtures thereof.

32. (previously presented) The method according to claim 30, wherein the pyruvate

precursors are selected from the group consisting of pyruvyl-glycine, pyruvyl-alanine,

pyruvyl-leucine, pyruvyl-valine, pyruvyl-isoleucine, pyruvyl-phenylalanine, pyruvamide,

salts of pyruvic acid, and mixtures thereof.

33. (previously presented) The method according to claim 30, wherein the α -keto

acids having four or more carbon atoms are selected from the group consisting of oxaloacetic

acid, keto-glutaric acid, keto-butyric acid, keto-adipic acid, keto-caproic acid, keto-isovaleric

acid, their salts and mixtures thereof.

34. (previously presented) The method according to claim 30, wherein the precursors

of α -keto acids having four or more carbon atoms are selected from the group consisting of α -

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keto acid-glycine, α -keto acid-cystine, α -keto acid-alanine, α -keto acid-leucine, α -keto acid-

valine, α -keto acid-isoleucine, α -keto acid-phenylalanine, α -keto amide, their salts and

mixtures thereof.

35. (previously presented) The method according to claim 30, wherein the disease

state is selected from the group consisting of primary pulmonary hypertension, chronic

obstructive pulmonary disease, adult respiratory distress syndrome, congenital heart disease,

cystic fibrosis, sarcoidosis, cor pulmonale, pulmonary embolism, bronchiectasis, emphysema,

Pickwickian syndrome, sleep apnea, congestive heart failure, and valvular heart disease.

36. (previously presented) The method according to claim 30, wherein the nitric oxide

mediator is present in an amount from about 0.1 millimoles to about 5 millimoles.

37. (previously presented) The method according to claim 36, wherein the nitric oxide

mediator is present in an amount from about 0.2 millimoles to about 4.0 millimoles.

38. (previously presented) The method according to claim 30, further comprising

contacting the mammalian cells with a nitric oxide source selected from the group consisting

of nitric oxide, nitric oxide precursors, nitric oxide stimulators, nitric oxide donors, and nitric

oxide analogs.

39. (previously presented) The method according to claim 38, wherein the nitric oxide

source is nitric oxide.

40. (previously presented) The method according to claim 38, wherein the nitric oxide

source is selected from the group consisting of L-arginine, ADP, arachidonic acid,

nitrogylcerin, nitroprusside, Sin-1 and SNAP.

41. (previously presented) The method according to claim 38, wherein the nitric oxide

source is present in an amount from about 10ppm to about 50ppm.

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42. (previously presented) The method according to claim 41, wherein the nitric oxide

source is present in an amount from about 15ppm to about 45ppm.

43. (previously presented) The method according to claim 38, wherein the nitric oxide

mediator is administered prior to administration of the nitric oxide source.

44. (previously presented) The method according to claim 38, wherein the nitric oxide

mediator is administered concomitantly with administration of the nitric oxide source.

45. (previously presented) The method according to claim 38, wherein the nitric oxide

mediator is administered after administration of the nitric oxide mediator.

46. (previously presented) The method according to claim 30, further comprising

contacting the mammalian cells with a therapeutic agent.

47. (previously presented) The method according to claim 46, wherein the therapeutic

agent is selected from the group consisting of antibacterials, antivirals, antifungals,

antitumors, antihistamines, proteins, enzymes, hormones, nonsteroidal anti-inflammatories,

cytokines, and steroids.

48. (previously presented) The method according to claim 46, wherein the therapeutic

agent is administered prior to administration of the nitric oxide mediator.

49. (previously presented) The method according to claim 46, wherein the therapeutic

agent is administered concomitantly with administration of the nitric oxide mediator.

50. (previously presented) The method according to claim 46, wherein the therapeutic

agent is administered after administration of the nitric oxide mediator,

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51. (previously presented) The method according to claim 30, wherein the nitric oxide mediator is inhaled.